

Transmitter Descriptions

The following information is taken from TSO C37d which covers the VHF transmitters that are used on our aircraft. Let me know if you require additional information for your submittal.

New models of VHF communications transmitting equipment that are to be so identified and that are manufactured on or after the effective date of this TSO must meet the MPS set forth in Section 2 of RTCA document (RTCA/DO)-186A, “Minimum Operational Performance Standards For Airborne Radio Communications Equipment Operating Within The Radio Frequency Range 117.975 - 137.000 MHz”, dated October 20, 1995, including Change 1 dated September 29, 1998 and Change 2 dated March 5, 2002. The minimum performance standards referenced herein allow for different equipment classes as defined by RTCA/DO-186A, Section 2.1.8. There are four equipment classes summarized in Table 1.

Table 1: Equipment Class for VHF Comm Transmitting Equipment

Equipment Class	Description
3	Transmitter used in a 25 kHz channel separation environment and intended to operate with a range of 200 nautical miles
4	Transmitter used in a 25 kHz channel separation environment and intended to operate with a range of 100 nautical miles
5	Transmitter used in a 8.33 kHz channel separation environment and intended to operate with a range of 200 nautical miles
6	Transmitter used in a 8.33 kHz channel separation environment and intended to operate with a range of 100 nautical miles

Functionality. The standards of this TSO apply to equipment intended for aircraft VHF amplitude modulated (AM) communications operating in the radio frequency range of 117.975 MHz to 137.000 MHz. This includes 25 and 8.33 kHz channel spacing capabilities. The VHF communication equipment covered by this TSO is primarily intended for Aeronautical Operational Control (AOC) and Air Traffic Services (ATS) safety communications.